Datasheet for ABIN334563

anti-ATP Synthase Subunit gamma (AtpC) antibody

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1 Image

Overview

Quantity:	100 µL
Target:	ATP Synthase Subunit gamma (AtpC)
Reactivity:	Arabidopsis thaliana, Chlamydomonas reinhardtii
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	Un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	synthetic peptides derived from Arabidopsis thalina chloroplast localized ATP synthase subunit gamma chain 1 and 2 protein sequence (At4g04640 and At1g15700) and Chlamydomonas reinhardtii ATP synthase subunit gamma protein sequence (A8HXL8) coupled to KLH
Cross-Reactivity (Details):	Not reactive in: no confirmed exceptions from predicted reactivity known in the moment
Predicted Reactivity:	Glycine max, Lens culinaris, Nicotiana tabacum, Physcomitrella patens, Pisum sativum, Populus jackii, Vitis vinifera, cyanobacteria
Characteristics:	Expected / apparent Molecular Weight of the Antigene: 42 kDa (Chlamydomonas reinhardtii), 38 kDa (Spinacia oleracea)
Purification:	serum

Target Details

Target:	ATP Synthase Subunit gamma (AtpC)

Target Details

Alternative Name:	Gamma subunit of ATP synthase (AtpC) (AtpC Products)
Background:	AGI Code: At4g04640 ATP synthase produces ATP from ADP in the presence of a proton gradient across the membrane. F-type ATPases have two components, CF(1) - the catalytic core - and CF(0) - the membrane proton channel. CF(1) has five subunits: alpha(3), beta(3), gamma(1), delta(1), epsilon(1). CF(0) has three main subunits: a, b and c. The gamma chain is believed to be important in regulating ATPase activity and the flow of protons through the CF(0) complex. Alternative name of gamma subunit is also: F-ATPase gamma subunit.
Molecular Weight:	expected: 35.3 , 42 (Chlamydomonas reinhardtii)35.6 kDa, apparent: 38 (Spinacia oleracea)
UniProt:	Q01908, Q01909
Pathways:	Proton Transport, Ribonucleoside Biosynthetic Process

Application Details

Application Notes:	1: 10 000 (WB), 1: 1000 (ELISA)
Comment:	apparent molecular weight of subunit gamma (and as general rule most of ATP synthase subunits) is quite different between Chlamydomonas (42 kDa) and higher plants (38 kDa in spinach), see figure in Lemaire et al. (1989)
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	For reconstitution add 100 µL of sterile water
Handling Advice:	Please, remember to spin tubes briefly prior to opening them to avoid any losses that might occur from lyophilized material adhering to the cap or sides of the tubes. Once reconstituted make aliquots to avoid repreated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	store lyophilized/reconstituted at -20°C, once reconstituted make aliquots to avoid repeated freeze-thaw cycles. Please, remember to spin tubes briefly prior to opening them to avoid any losses that might occur from lyophilized material adhering to the cap or sides of the tubes.

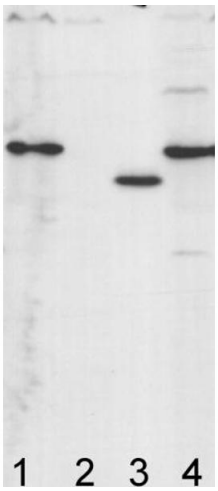

Image 1.

